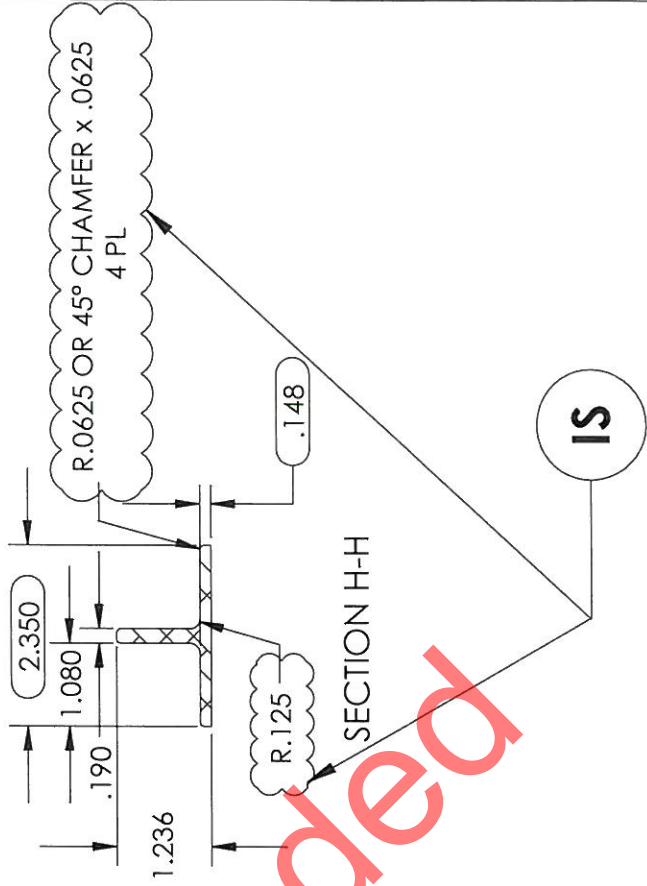
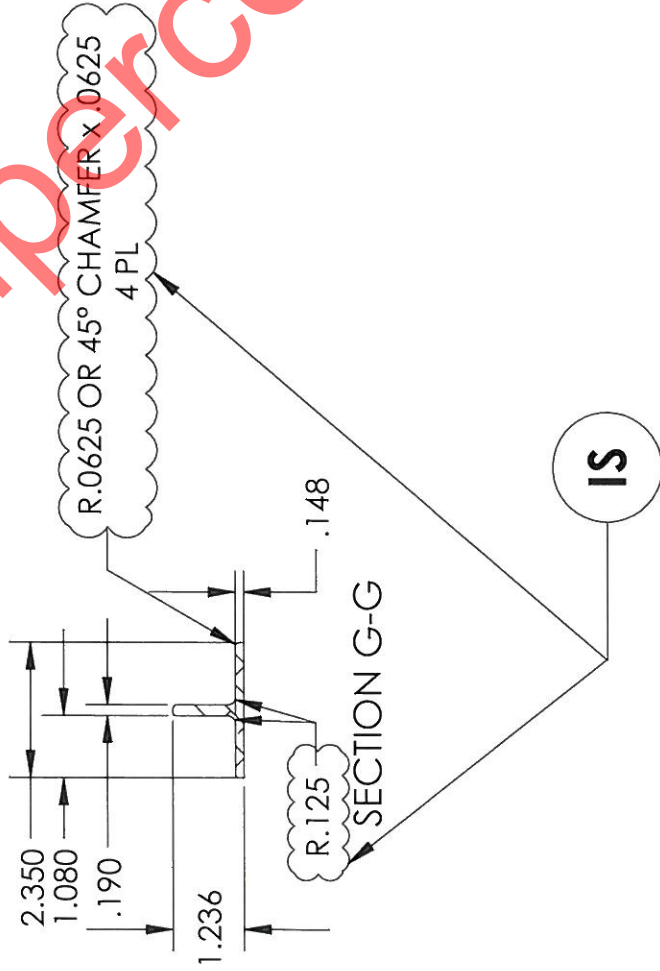


ENGINEERING CHANGE NOTICE NO. 04230		SHEET 1 OF 2	
DWG NO. 647.9400	REV: A	PREPARED BY J. SOTO	DATE: 11/11/2013
DWG TITLE: DEFLECTORS		EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
APPROVED BY: <i>[Signature]</i>	ENGR: <i>[Signature]</i>	MFG: <i>[Signature]</i>	QC: <i>[Signature]</i>
REASON: REVISED DIMENSIONS AND ADDED OPTION FOR CHAMFER. REVISED TOLERANCES		NEXT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE		ECR: 13-031	

SHEET 6, ZONE A4 IS:

SHEET 7, ZONE D4 IS:



DOCUMENTS EFFECTED:	<input type="checkbox"/> MDL	<input type="checkbox"/> INSTALL INSTRUCTIONS	<input type="checkbox"/> ICA	<input type="checkbox"/> FMS	<input type="checkbox"/> BOM
CHANGE CATEGORY	<input type="checkbox"/> MAJOR	<input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED		
			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	

SHEET 2 AND 5-9, ZONE D7 IS:

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
2 PLACE DECIMALS $\pm .03$
3 PLACE DECIMALS $\pm .010$
ANGLES $\pm .5^{\circ}$



IS

ENGINEERING CHANGE NOTICE NO. 03762		SHEET 1 OF 1	
DWG NO. 647.9400	REV: A	PREPARED BY B. PETERS	DATE: 01/07/13
DWG TITLE: DEFLECTORS			
APPROVED BY: <i>[Signature]</i>	ENGR	MFG <i>[Signature]</i>	QC <i>[Signature]</i>
REASON: REVISED HOLE DIAMETER TO REFLECT PIN DIAMETER IN NEXT ASSY.			
TRANSACTION CODES (TC): A-ADD R-REVISE C-CREATE D-DELETE			
EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.			

Supercal

IS

TAG	X	LOC	Y	LOC	SIZE
A1	-8.949	-4.066	Ø	.201	
A2	-6.172	-3.562	Ø	.201	
B1	-7.903	-5.121	Ø	.253	
C1	-5.978	-.267	Ø	.165	
C2	-3.863	-.267	Ø	.165	
C3	-1.758	-.267	Ø	.165	
D1	-5.159	-2.500	Ø	.250	

SHEET 9, ZONE C8 IS:

DOCUMENTS EFFECTED:	<input type="checkbox"/> RFMS	<input type="checkbox"/> MDL	<input type="checkbox"/> INSTALL	<input type="checkbox"/> INSTRUC	<input type="checkbox"/> ICA	<input type="checkbox"/> BOM	CHANGE CATEGORY	<input type="checkbox"/> MAJOR	<input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
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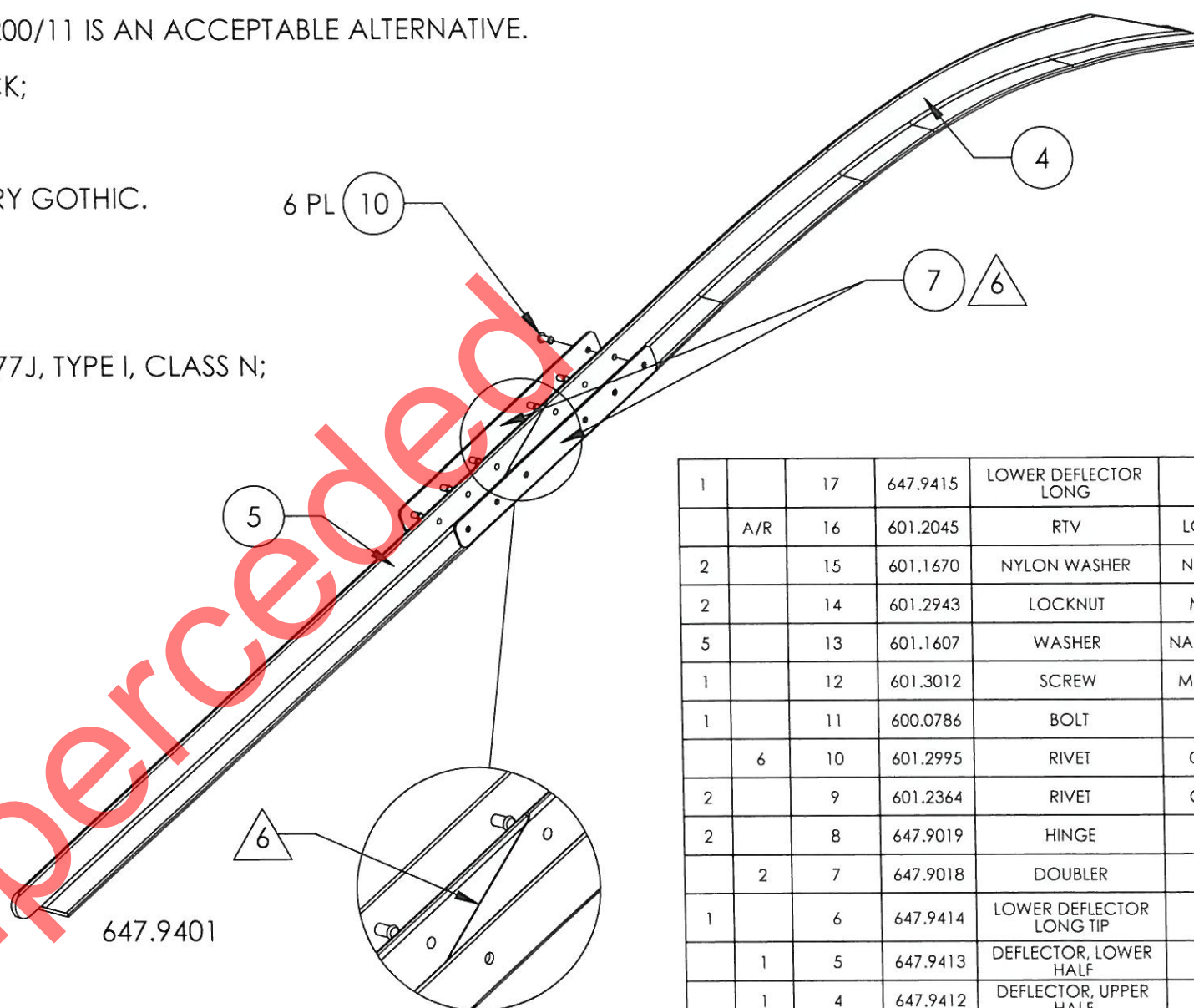
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE RELEASE: PR1		
N/C	INITIAL RELEASE	06-09-10	P. BRAVO
A	INCORPORATE ECN 03027, 03065, 03215 AND 03654.	10-23-12	J. GARDNER

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12. AMS-QQ-A-200/11 IS AN ACCEPTABLE ALTERNATIVE.
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
3. DE BURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC.
5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.
- 6 APPLY F/N 17 TO FAYING SURFACES.
- 7 FINISH: PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N; 1-2 MIL MAX. APPLY FINISH AFTER ASSEMBLY.
- 8 TORQUE 15-20 IN.-LBS.
- 9 DIMENSION SHOWN IS FOR INSPECTION AFTER FINISHING.

UNINCORPORATED ECN(s)

03739, 03762, 04230



1		17	647.9415	LOWER DEFLECTOR LONG		
	A/R	16	601.2045	RTV	LOCTITE 598	
2		15	601.1670	NYLON WASHER	NAS1515H3L	
2		14	601.2943	LOCKNUT	MS21042-3	
5		13	601.1607	WASHER	NAS1149F0332P	
1		12	601.3012	SCREW	MS27039-1-15	
1		11	600.0786	BOLT	AN3C7A	
	6	10	601.2995	RIVET	CR3213-6-6	
2		9	601.2364	RIVET	CR3213-4-8	
2		8	647.9019	HINGE		
	2	7	647.9018	DOUBLER		
1		6	647.9414	LOWER DEFLECTOR LONG TIP	1	2 7
	1	5	647.9413	DEFLECTOR, LOWER HALF	1	2
	1	4	647.9412	DEFLECTOR, UPPER HALF	1	2
1		3	647.9501	QUICK RELEASE PIN ASSY		
		2	647.9411	UPPER DEFLECTOR	1	2 7
		1	647.9410	LOWER DEFLECTOR	1	2 7
			647.9402	LOWER DEFLECTOR LONG ASSY		
			647.9401	DEFLECTOR ASSY		7
.9402	.9401	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

QTY		PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE (M/D-YR)	06-09-10	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
647.8900		DRAWN BY	CHECKER		
647.9200		P. ROSANO	P. BRAVO		
		DRAWING APPROVAL			
		P. BRAVO		DEFLECTORS	
		CONTRACT No.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°			
SIZE	CAGE CODE	DWG. NO.	REV.		
B	07M26	647.9400	A		
SCALE		NONE		SHEET 1 OF 9	

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A

B

C

D

54.664^{+.010}
-.000

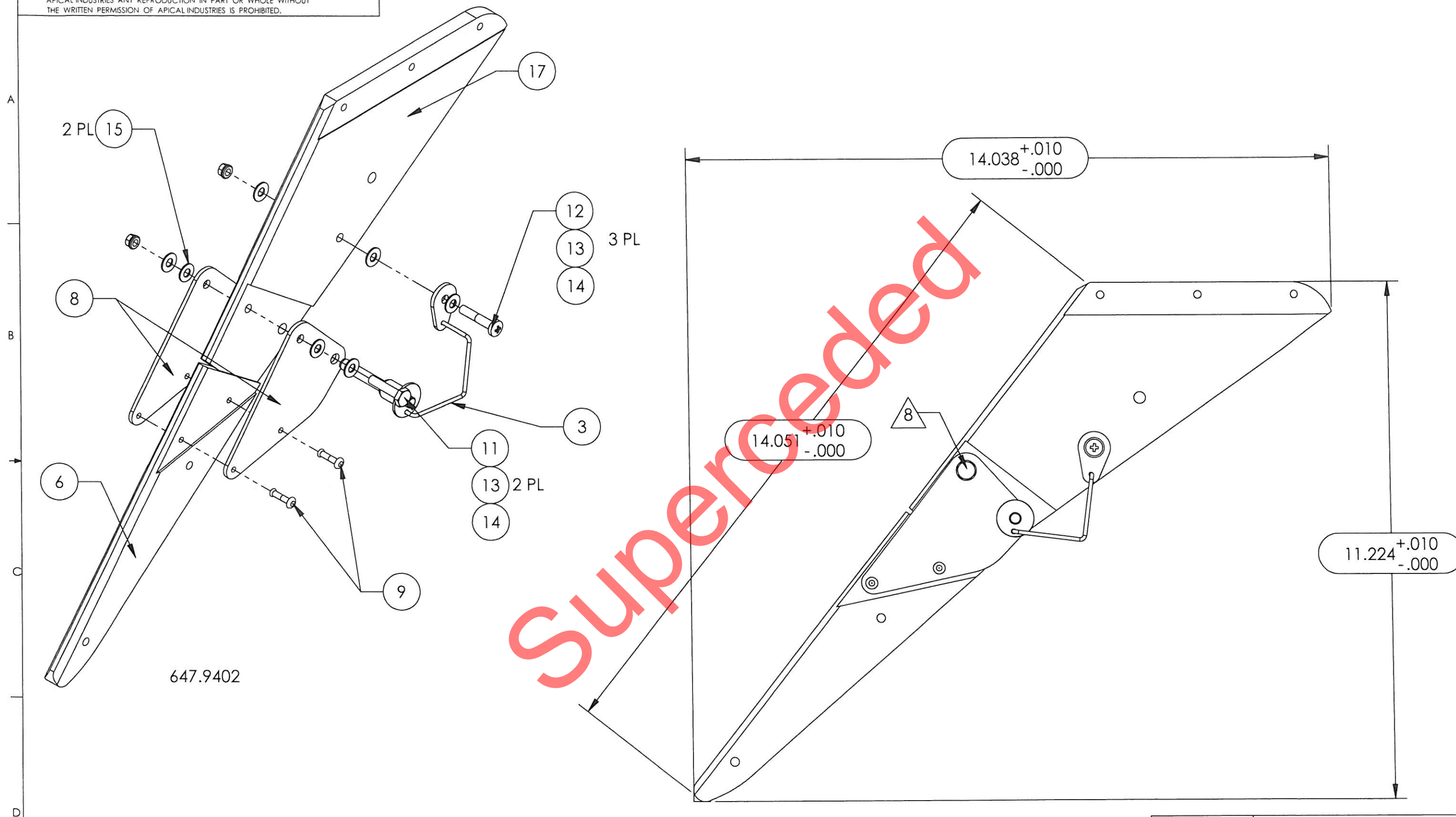
9.000

20.272^{+.010}
-.000

Superceded

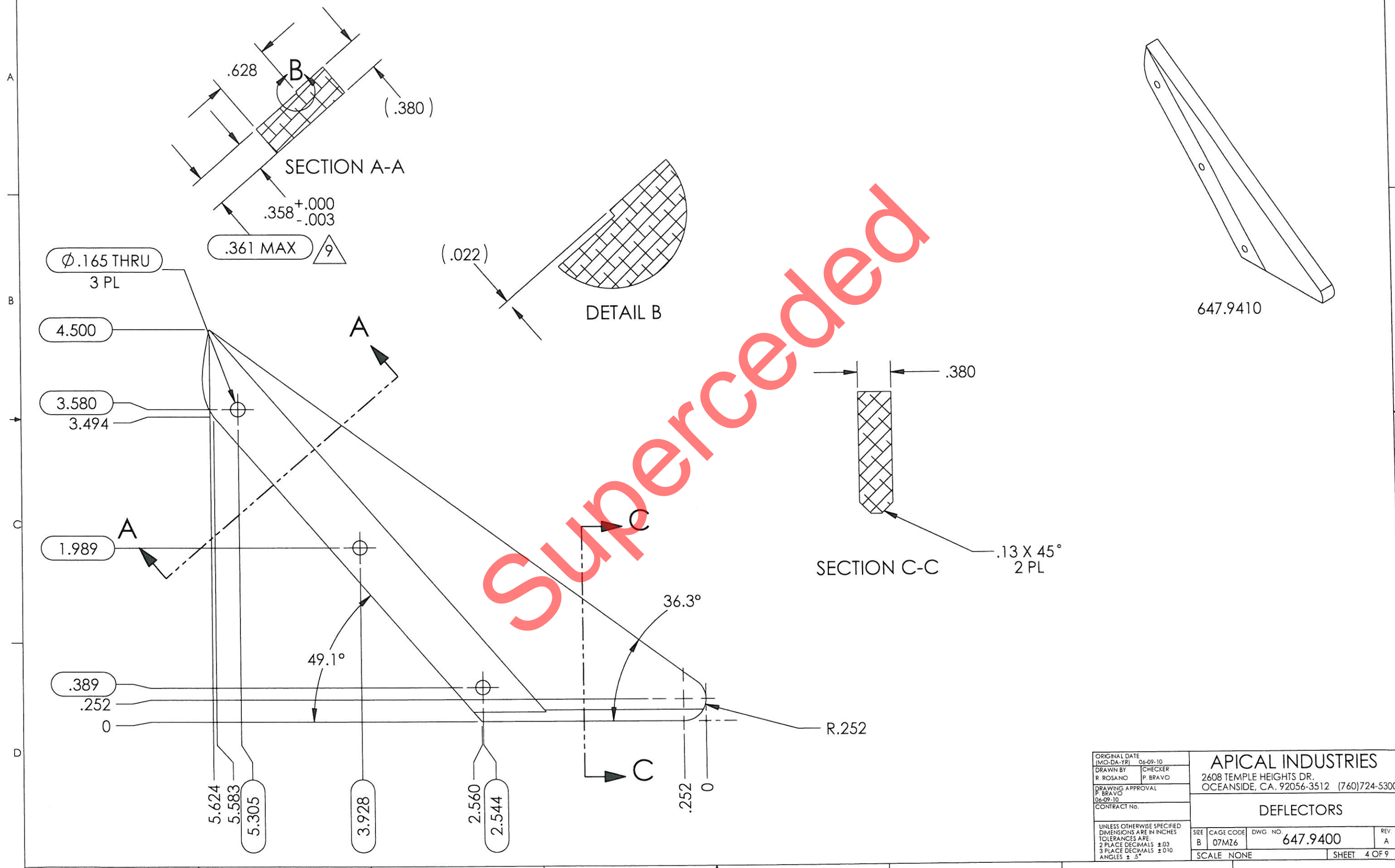
ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-09-10		DEFLECTORS	
CONTRACT No.		SIZE B	REV A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG NO. 647.9400
		SCALE NONE	SHEET 2 OF 9

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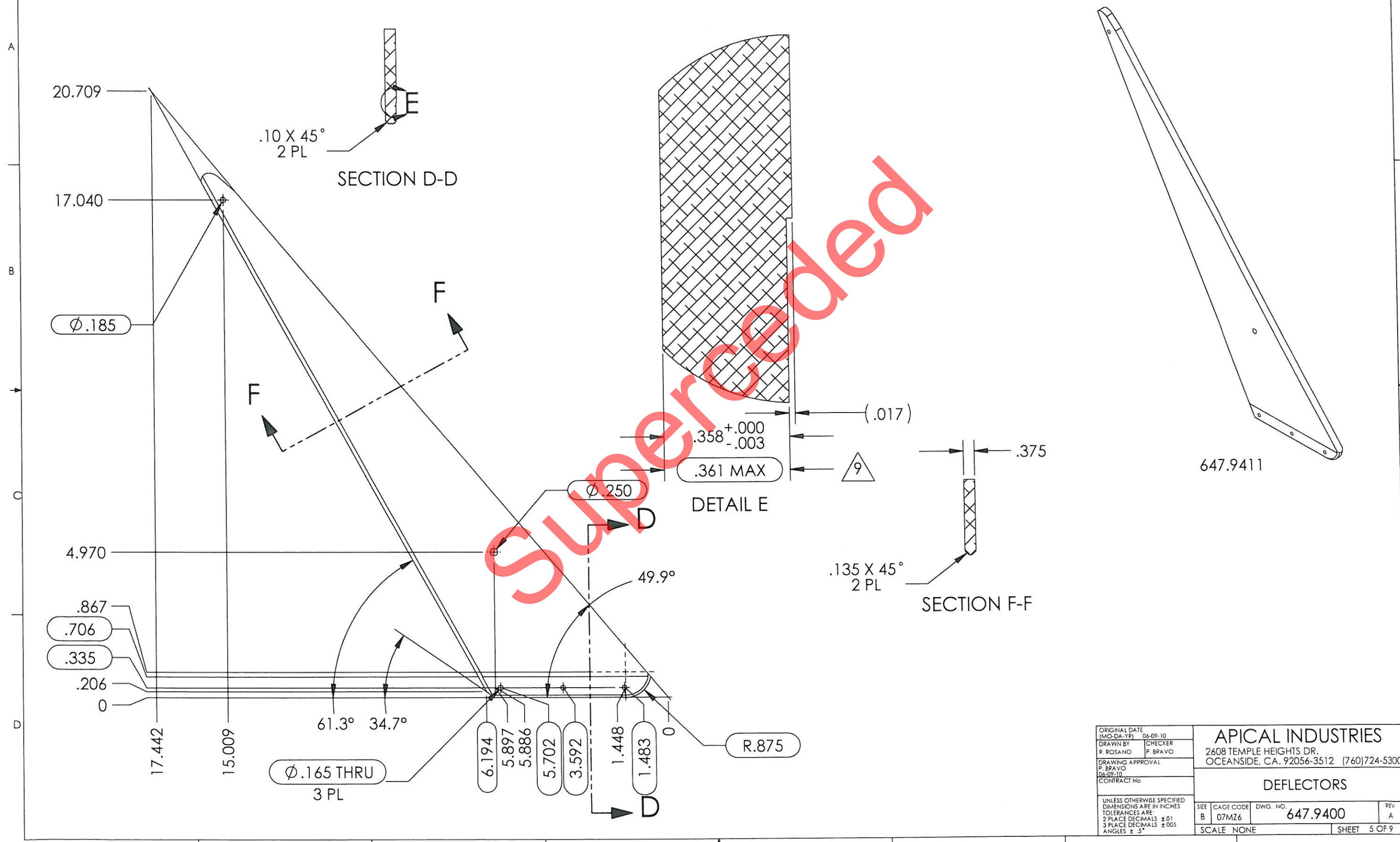
ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-09-10		DEFLECTORS	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .03$ 3 PLACE DECIMALS $\pm .010$ ANGLES $\pm .5^\circ$		SIZE B	REV. A
		CAGE CODE 07MZ6	DWG. NO. 647.9400
		SCALE NONE	SHEET 3 OF 9

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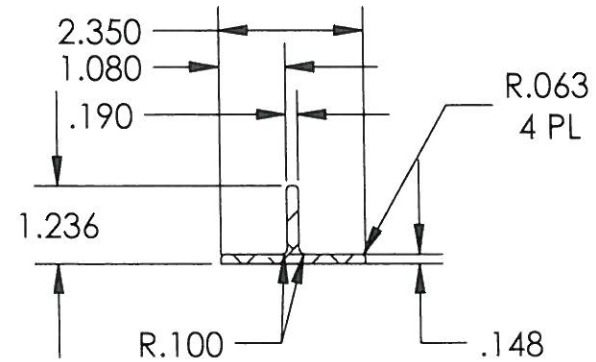


ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		DEFLECTORS	
DRAWING APPROVAL P. BRAVO 06-09-10		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .03$ 3 PLACE DECIMALS $\pm .010$ ANGLES $\pm .5^\circ$	
CONTRACT NO.		SIZE B	REV A
		CAGE CODE 07M26	DWG. NO. 647.9400
		SCALE NONE	SHEET 4 OF 9

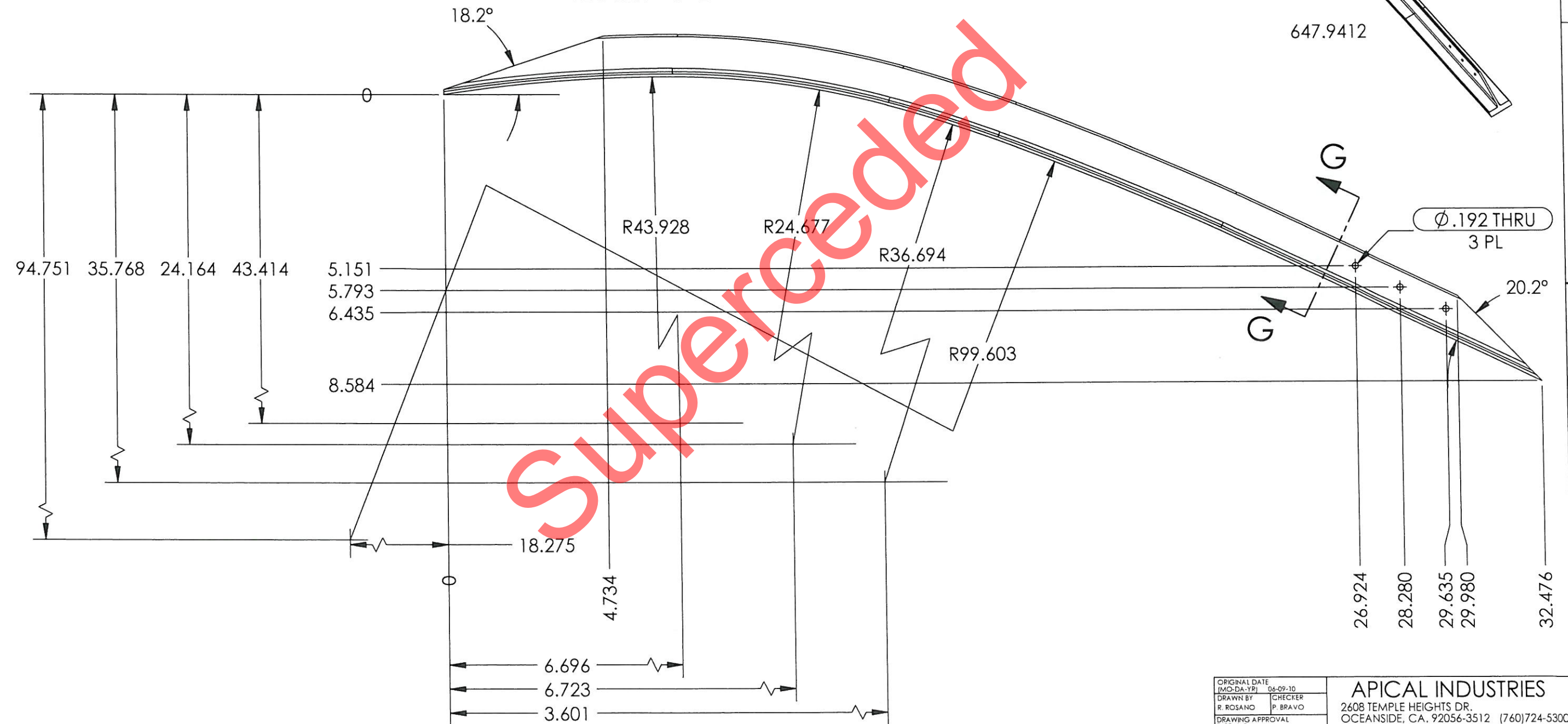
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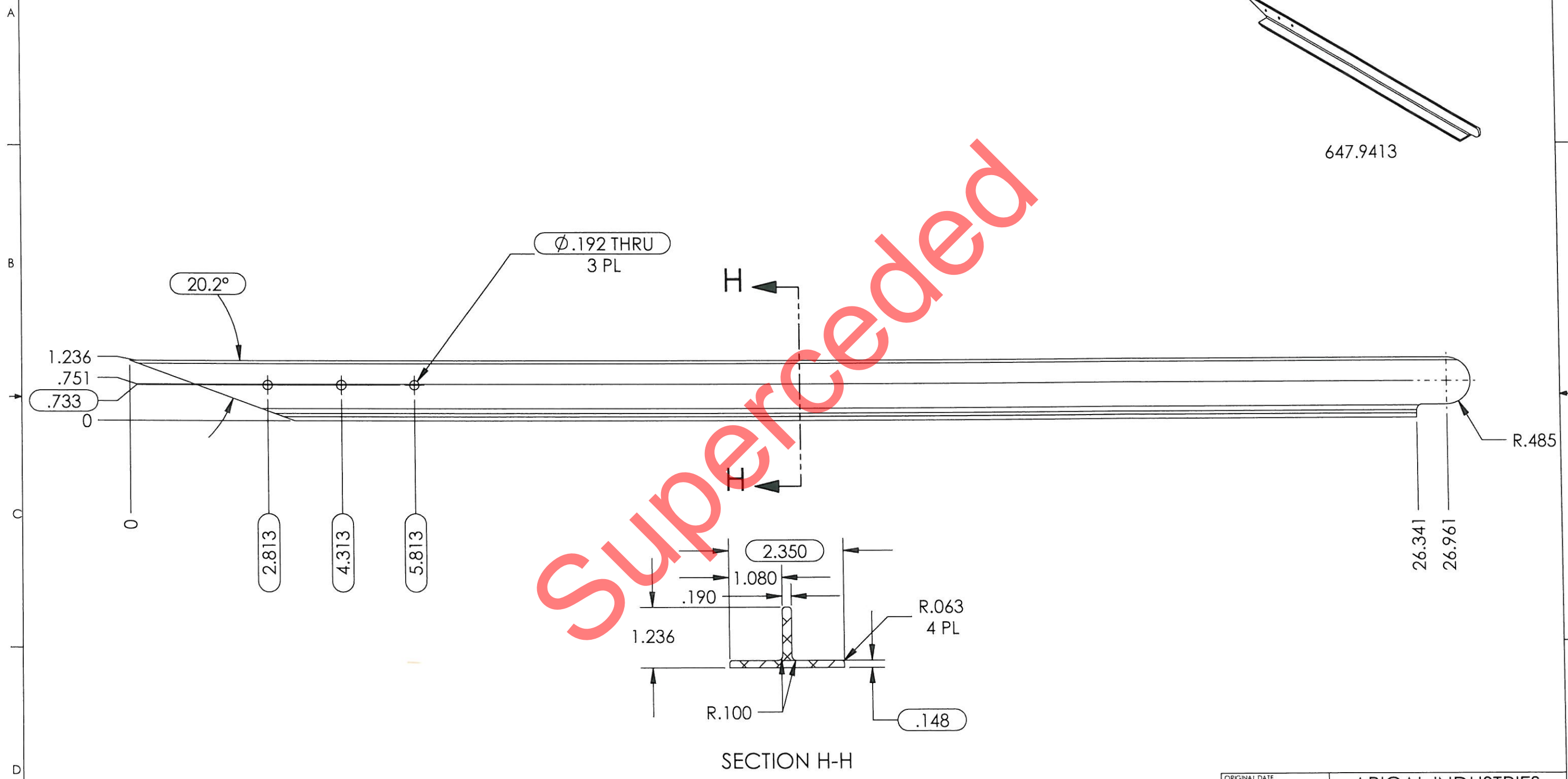


SECTION G-G



ORIGINAL DATE (MO-DA-YR) 08-09-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO	CHECKER P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO 04-02-10		DEFLECTORS	
CONTRACT NO.		SIZE B	REV A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 647.9400
		SCALE NONE	SHEET 6 OF 9

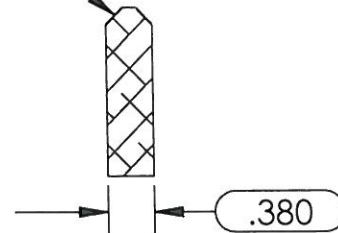
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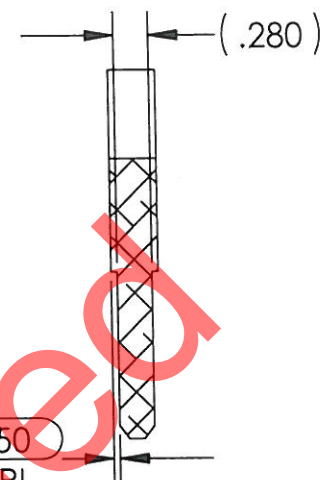
ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-09-10			
CONTRACT No.		DEFLECTORS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.9400	REV. A
SCALE NONE			SHEET 7 OF 9

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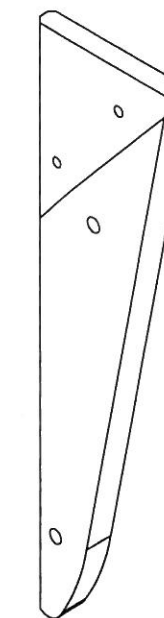
.13 x 45°
2 PL



SECTION J-J



SECTION K-K



647.9414

11.136

R.253

7.470

R2.982

6.597

J

J

2.190

1.700

78.0°

48.9°

.558

0

Ø.130 2PL

2.200

.245

0

.023

.088

.240

.326

.936

1.306

2.063

2.112

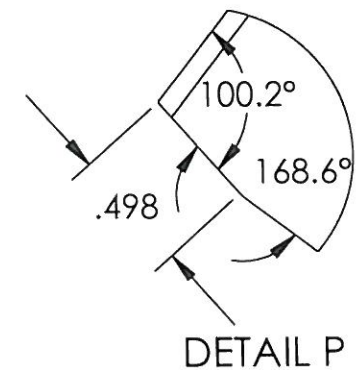
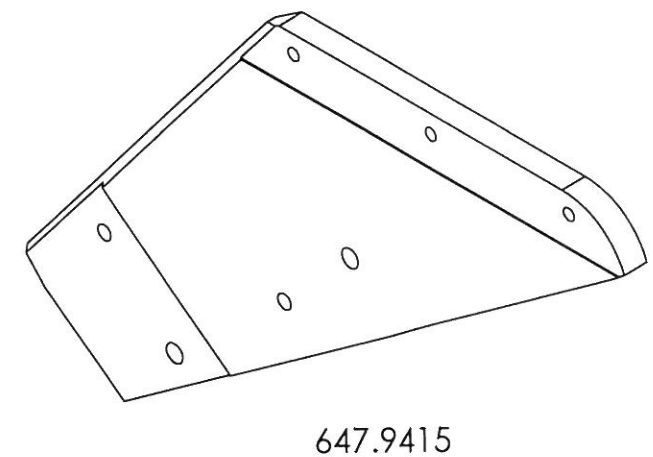
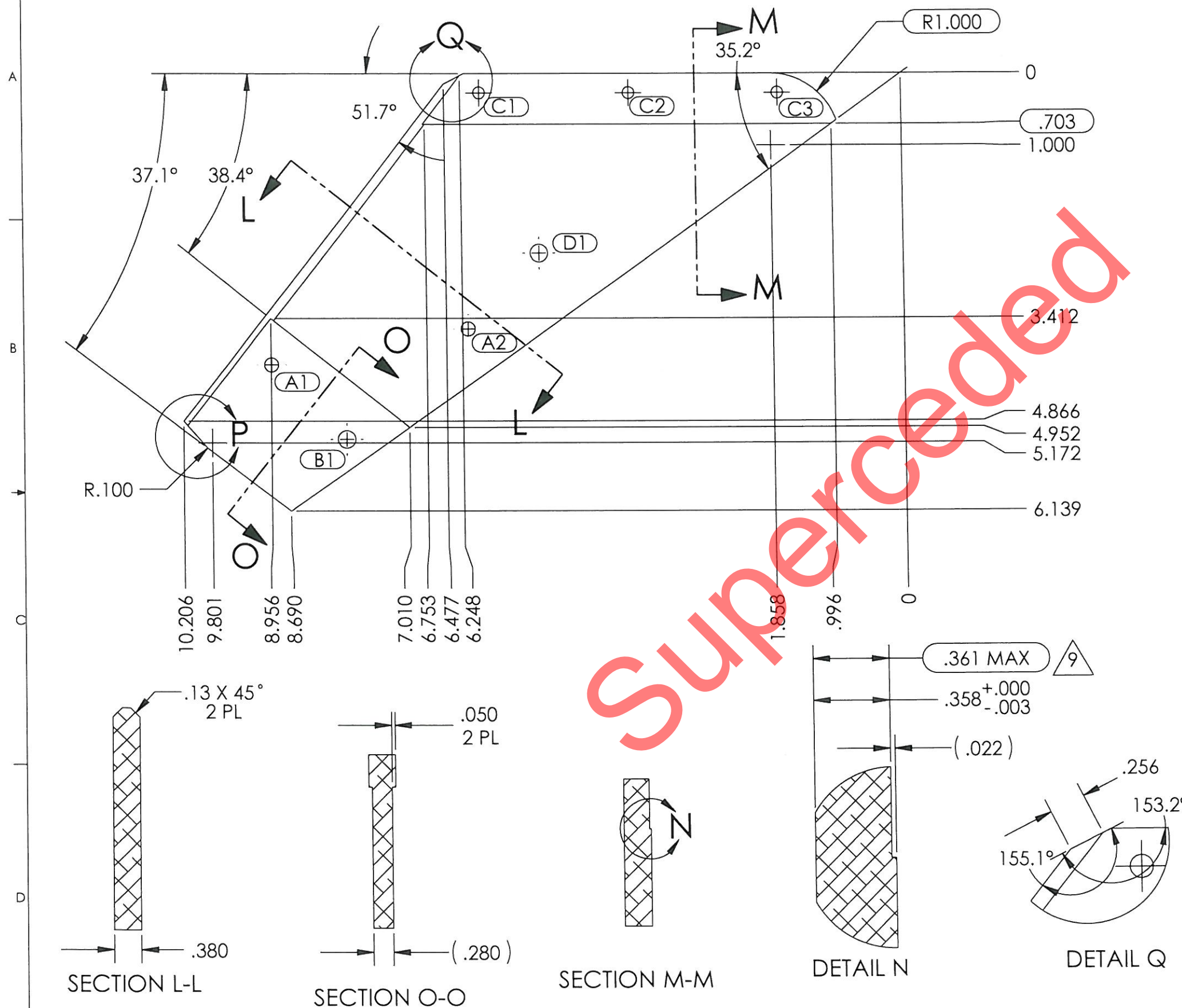
88.7°

K

K

ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO	CHECKER P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO 06-09-10		DEFLECTORS	
CONTRACT NO.		SIZE B	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07M26	DWG. NO. 647.9400
		SCALE NONE	SHEET 8 OF 9

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TAG	X LOC	Y LOC	SIZE
A1	-8.949	-4.066	Ø.201
A2	-6.172	-3.562	Ø.201
B1	-7.903	-5.121	Ø.250
C1	-5.978	-.267	Ø.165
C2	-3.863	-.267	Ø.165
C3	-1.758	-.267	Ø.165
D1	-5.159	-2.500	Ø.250

ORIGINAL DATE (MO-DA-YR) 06-09-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR.	
CHECKER P. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		DEFLECTORS	
CONTRACT NO.		REV. A	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE DWG. NO. 647.9400	
SCALE NONE		SHEET 9 OF 9	